

## On entropy in quasi-metric space

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The quasi-uniform entropy  $h_{QU}(\psi)$  is defined for a uniformly continuous self-map  $\psi$  of a quasi-metric space  $(X, q)$ . Basic properties are proved about this entropy, and it is shown that the quasi-uniform entropy  $h_{QU}(\psi, q)$  is less or equal to the Bowen's uniform entropy  $h_U(\psi, q^s)$  of  $\psi$  considered as a uniformly continuous self-map of the metric space  $(X, q^s)$ , where  $q^s$  is the symmetrised metric of the quasi-metric  $q$ . Finally, we prove that the completion theorem for the quasi-uniform entropy holds in the class of all join-compact quasi-metric spaces, that is for join-compact quasi-metric spaces the entropy of a uniformly continuous self-map coincides with the entropy of its extension to the bicompletion.

## References

- [1] P. Haihambo and O. Olela Otafudu, On entropy in quasi-metric space, Topology Appl. (To appear).